

REMARKS/ARGUMENTS

Favorable reconsideration of this application as presently amended and in light of the following discussion is respectfully requested.

Claims 1-12 are pending in this application. Claims 7, 8, 11, and 12 are amended by the present amendment.

In the outstanding Office Action, Claim 7 was objected to, and Claims 1-12 were rejected under 35 U.S.C. § 103(a) as unpatentable over U.S. Publication 2003/0022683 to Beckmann et al. (herein "Beckmann") in view of U.S. Publication 2002/0071407 to Koo et al. (herein "Koo").

Initially, Applicant and Applicant's representative gratefully acknowledge the courtesy of a personal interview with Supervisory Patent Examiner Perez-Gutierrez and Examiner Miah on November 13, 2007. During the interview, differences between the claimed inventions and references in the outstanding Office Action were discussed. In particular, it was discussed that the references fail to teach or suggest a communication system in which control information is control information on a number of to-be-received HS-SCCHs. Comments and claim amendments discussed during the interview are reiterated below.

Regarding the objection to the claims, Claim 7 is amended to indicate the first HS-PDSCH follows the second HS-PDSCH. Accordingly, it is respectfully requested the objection to Claim 7 be withdrawn.

Applicant respectfully traverses the rejection of Claims 1-12 under 35 U.S.C. § 103(a) as unpatentable over Beckmann in view of Koo.

In a communication system according to Beckmann, although a PDSCH and a SHCCH are used, Applicants respectfully submit an HS-PDSCH and an HS-SCCH are not used. Thus, it is respectfully submitted that the communication system in Beckmann does not

correspond to an HSDPA. Similarly, in the communication system according to Koo, Applicants respectfully submit that the HS-PDSCH and the HS-SCCH are not used, and thus the communication system in Koo also doesn't correspond to the HSDPA.

As recited in paragraph [0029] of Beckmann, a DSCH has already been specified for a UMTS standard (for instance, version Release 4 of a 3GPP (W-CDMA) standard). Further, the present application notes that a DPCH and the DSCH (the PDSCH) are channels specified by conventional arts (standards) of UMTS and are different than and distinct from the HS-PDSCH.

Further, the present invention relates to a channel for an HSDPA introduced in Release 5 and omits an explanation of the DSCH, which has nothing to do with embodiments of the present invention.

In addition, in the DSCH, the same transmission time unit (TTI: Transmission time Interval: 10ms) is used as in the DPCH specified in Release 1999, which is a prior standard to Release 4. On the other hand, the HS-PDSCH, in which the TTI is shortened to 2ms for a high-speed packet transmission, is not used in the DSCH. Moreover, in the PDSCH, a Shared Channel (the HS-SCCH) is not accompanied, unlike the HS-PDSCH.

In this way, since the communication systems in both Beckmann and Koo do not correspond to the HSDPA, one could not obtain the communication systems according to Claims 1-10, which correspond to an embodiment of the HSDPA or transmitting and receiving stations as recited in Claims 11 and 12. Therefore, Applicants respectfully submit the inventions according to independent Claims 1, 11, and 12, and claims depending therefrom, are allowable.

Further, as to Claim 2, Beckmann and Koo fail to disclose or suggest control information on the number of to-be-received HS-SCCHs, as acknowledged during the interview. The Office Action points out that Beckmann, in paragraph [0036], lines 1-11,

indicates “said control information is control information on the number of to-be-received HS-SCCHs.” “Physical shared channel allocation message” as recited in paragraph [0036] is information about how to allocate the DSCH to a certain UE, and the “[p]hysical shared channel allocation message” of Beckmann is not information for assigning (changing) numbers that the UE receives the HS-SCCH, as is demonstrated in embodiments of the present invention.

Here, the HS-SCCH is a channel for notifying the UE of information about the HS-PDSCH transmitted together with the HS-SCCH in pairs in one packet transmission (for instance, information about how many HS-PDSCHs are allocated to a specific UE at one time to perform the packet transmission, information about sizes of packet data on this occasion, or the like). Accordingly, the invention according to Claim 2 should be allowed.

Moreover, as to Claim 6, the Office Action points out that Beckmann describes in paragraph [0038], lines 12-17, that “notifying information indicating that the control information is being transmitted from the transmitting station is transmitted from the transmitting station to the receiving station through the HS-SCCH.” Applicants respectfully submit that a TFCI in Beckmann’s paragraph [0038] is transmitted by a dedicated channel as described in paragraph [0038], lines 1-3 (for instance, a DPCCH (Dedicated Physical Control Channel), which is one of the DPCHs being conventional channels, as described in 3GPP standard TS25.211 Release 4), and Applicants respectfully submit that Beckmann fails to describe that the THCI is transmitted by the HS-SCCH.

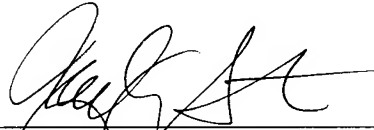
In addition, Applicants respectfully submit that Beckmann does not explain what a “PDSCH message” represents in paragraph [0037], line 1 (however, an explanation as to what kind of information is included is described after line 2).

Therefore, Applicants respectfully submit that Beckmann fails to disclose each feature of Claim 6, and thus Claim 6 should also be allowed in this regard.

Consequently, in light of the above discussion and in view of the present amendment, this present application is believed to be in condition for allowance and an early and favorable action to that effect is respectfully requested.

Respectfully submitted,

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